

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/040457 A2

(51) International Patent Classification⁷: C25B 1/36, 9/00

(21) International Application Number:

PCT/EP2004/011917

(22) International Filing Date: 21 October 2004 (21.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2003A002040 21 October 2003 (21.10.2003) IT

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

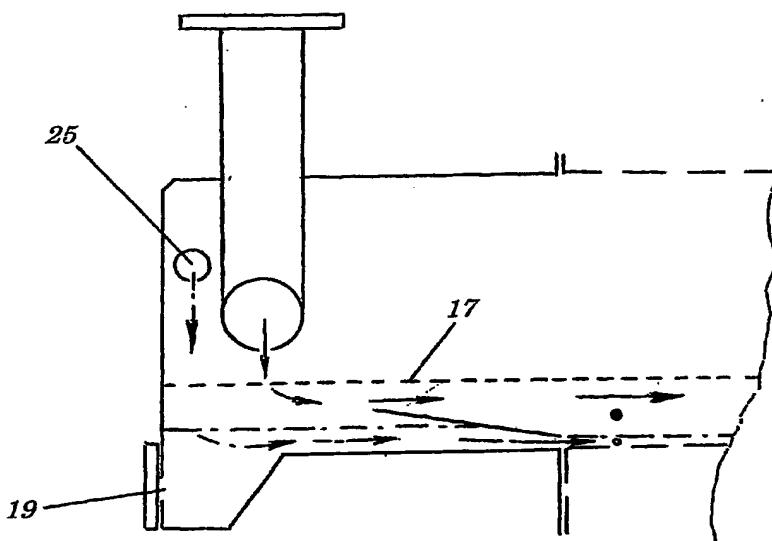
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: COOLING DEVICE FOR END-BOX OF MERCURY CATHODE CHLOR-ALKALI CELLS



WO 2005/040457 A2

(57) Abstract: The invention describes heat exchange devices for dry-type inlet end-boxes of mercury cathode chlor-alkali electrolysis cells. The devices increase the heat exchange between recycled mercury and feed brine with the purpose of reducing the temperature of mercury to a substantial extent. The devices consist of a first element directed to subdivide the mercury flow into a fine and a stable dispersion of rivulets and droplets and of a second element capable of increasing the brine level to allow the prolonged contact thereof with mercury. The decrease of mercury temperature below the critical value of 90-95 °C determines an advantageous duration improvement of the end-box internal lining.



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